

APPARATUS COMPENSATING A SCANNED OBJECT FOR OPTICAL CHARACTERISTICS ACCORDING TO LIGHT SOURCES OF DIFFERENT WAVELENGTHS

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ABSTRACT OF THE INVENTION

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The present invention is about an apparatus for scanning an object. The apparatus comprises an image capture module having a lens and a sensors array for capturing light after scanning the object. There are light sources comprising a visible light source and an infrared light source. Next, a key module of the present invention is a first translation module connected with the lens and the sensors array. The first translation module is used for changing a first location of the lens and a second location of the sensors array according to using different the light sources so as to improve some optical characteristics, such as aberration resulting from different wavelengths of light sources. A power module connects with the first translation module and the light sources for supporting energy to the first translation module and the light sources. Moreover, a second translation module connects with the light sources and the image capture module, and the second translation driven by the power module. A control module connects to the power module and the image capture module, and a loading platform module has a platform and therein all the modules and the light sources are placed.